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LINE 401

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## About the 401 LINE PROFILE ....

The 401 LINE PROFILE brings together into one report all readily available data which are relative to analysis of Line 401. It is designed to allow evaluation of Line 401 on the basis of: service provided, public utilization of the service, costs of operation and other factors.

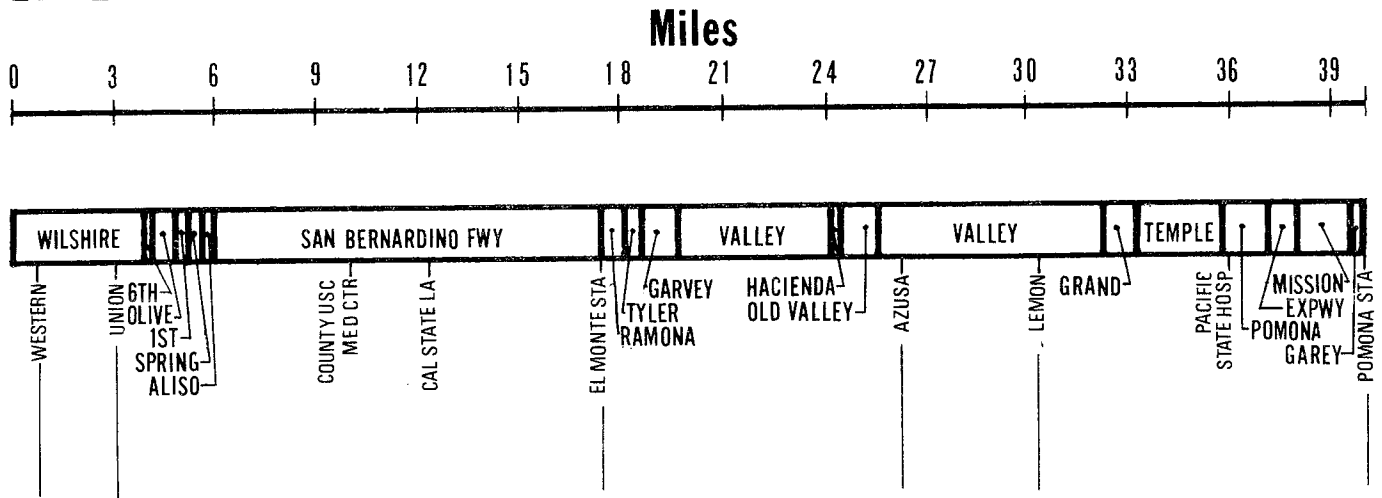
The Ridership Check which was made on Wednesday, October 15, 1975, is basic to the 401 LINE PROFILE. All other factors included in this report are those effective on the same date as the ridership check -- October 15, 1975. Thus all sections of the report are for a comparable time period.

The published Supervisor Summary in effect October 15, 1975, was the source for all of the data shown in the "Service" section of the report and also was the basis for the chart showing the number of buses in service under "Cost Factors". All data from the Supervisor Summary is shown for a typical weekday unless otherwise noted. Other data in the "Cost Factors" section originated from various pay time and mileage sheets for the period effective the date of the check.

# SERVICE

LINE 401

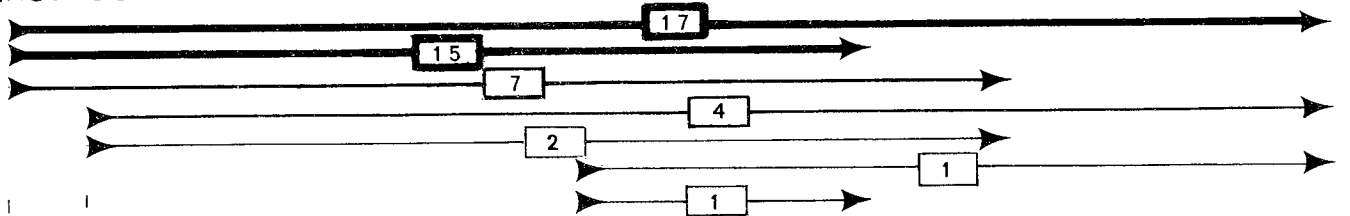
## LINE DIAGRAM



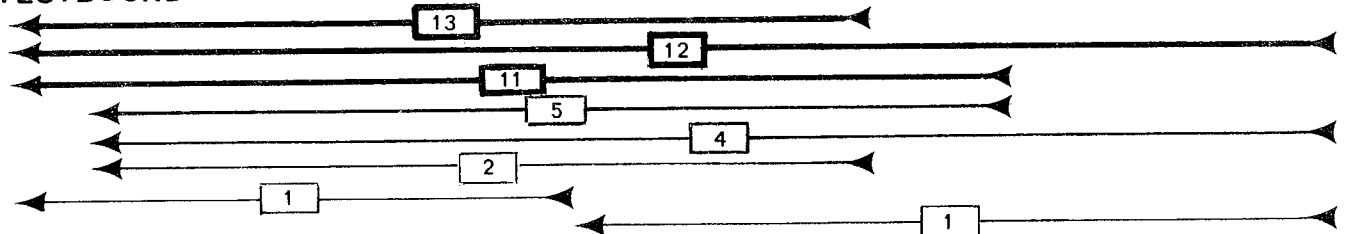
## TRIPS OPERATED (Number per Day)

### Weekdays

#### EASTBOUND

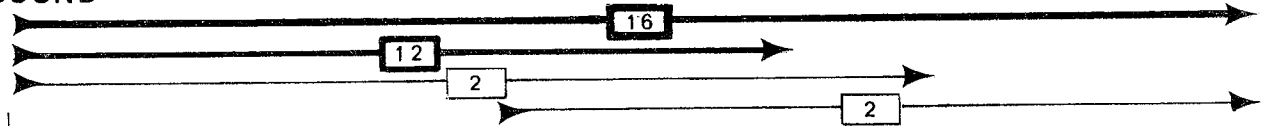


#### WESTBOUND



### Saturdays

#### EASTBOUND

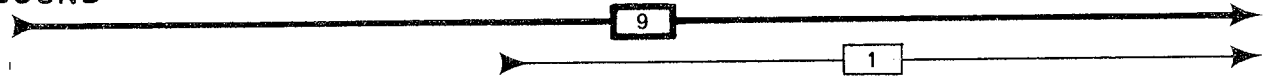


#### WESTBOUND

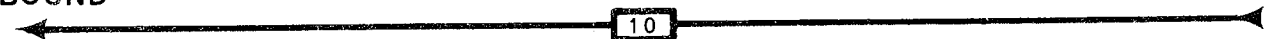


### Sundays & Holidays

#### EASTBOUND

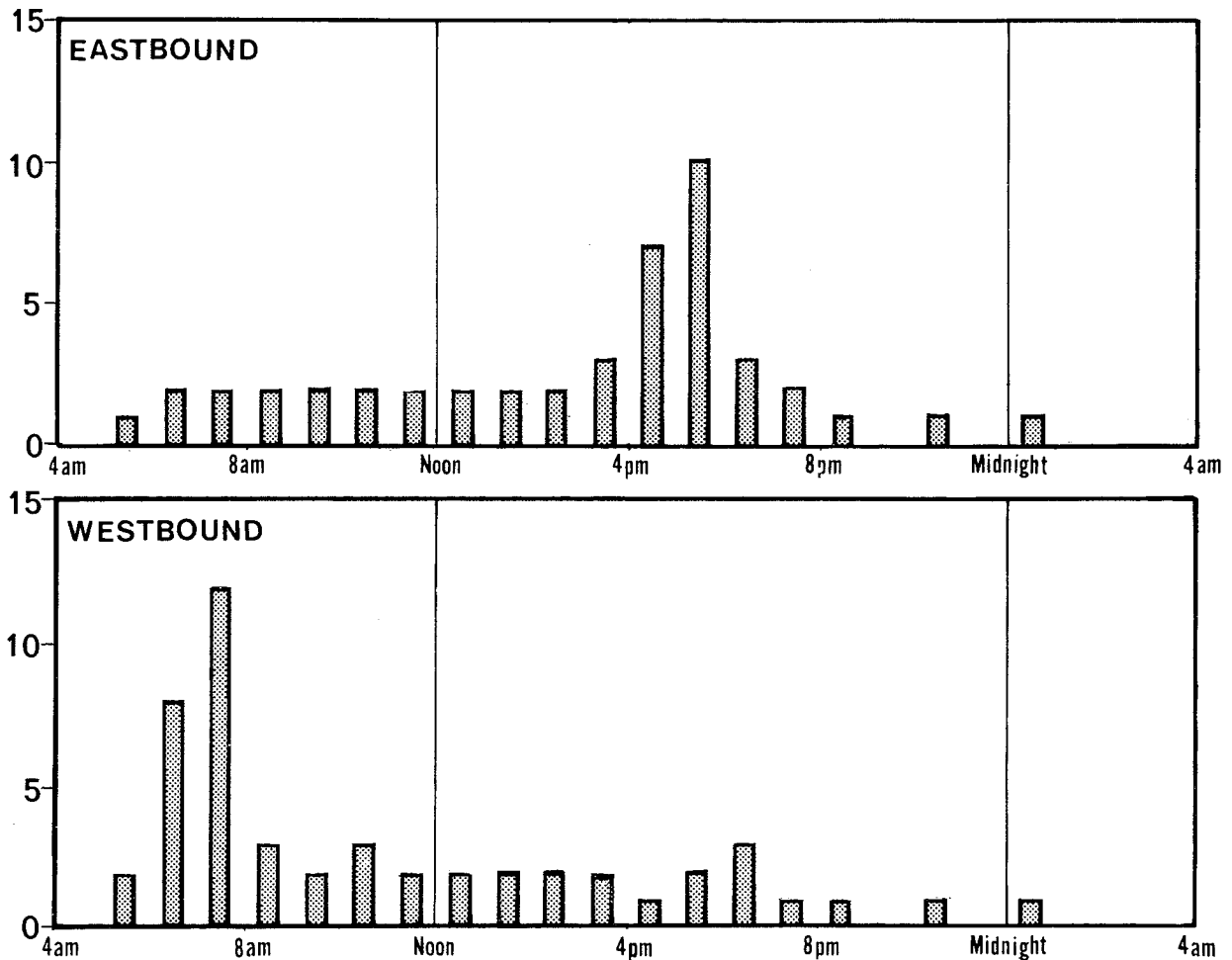


#### WESTBOUND



**TRIP FREQUENCY**

**Buses per Hour at El Monte Station**



**RUNNING TIME**

**EASTBOUND**

DEPARTURE TIME	4:30 A.M.	5:30 A.M.	7:10 A.M.	1:30 P.M.	3:00 P.M.	5:00 P.M.	9:00 P.M.
MINUTES	97	102	96	98	103	90	85

**WESTBOUND**

DEPARTURE TIME	5:00 A.M.	7:00 A.M.	11:50 A.M.	1:30 P.M.	3:05 P.M.	3:50 P.M.	5:20 P.M.	7:00 P.M.
MINUTES	91	94	98	101	105	109	93	90

**LINE SERVICE SPREAD**

**FAR TERMINALS**

POMONA STATION  
 WALNUT (VALLEY at LEMON)  
 EL MONTE STATION  
 WILSHIRE at UNION  
 WILSHIRE at WESTERN

**FIRST DEPARTURE**

5:41 A.M.  
 5:04 A.M.  
 5:40 A.M.  
 6:29 A.M.  
 6:49 A.M.

**LAST ARRIVAL**

1:47 A.M.  
 -  
 -  
 12:35 A.M.  
 6:15 P.M.

# LINE USAGE

## LINE 401

A Ridership Check was made of Line 401 on Wednesday, October 15, 1975. The check consisted of checkers riding on all trips during the day of the check and recording various data. Among the data recorded were the number of passengers boarding and alighting at each stop along the route in each direction. This data has been summarized and plotted on the Line Usage graphs on succeeding pages.

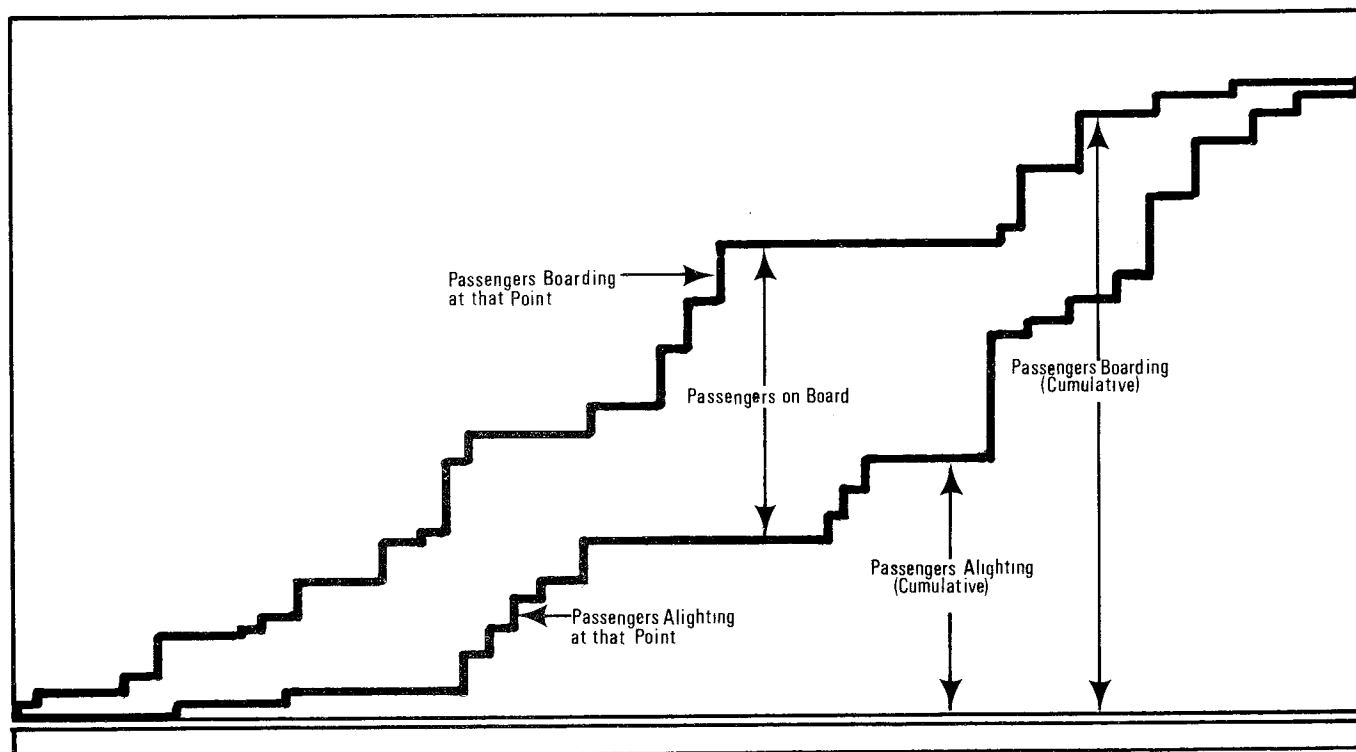
Each of the graphs represent an average trip during a particular time period on October 15, 1975. The grouping of the trips into time periods is accomplished by establishing one Alignment Point for each direction the Line travels. An Alignment Point is a point at which a time check is made. Data for all trips passing by this point during a particular time period are aggregated and averaged for comparability and plotting. The Alignment Point for both the Eastbound and Westbound trips on Line 401 was El Monte Station.

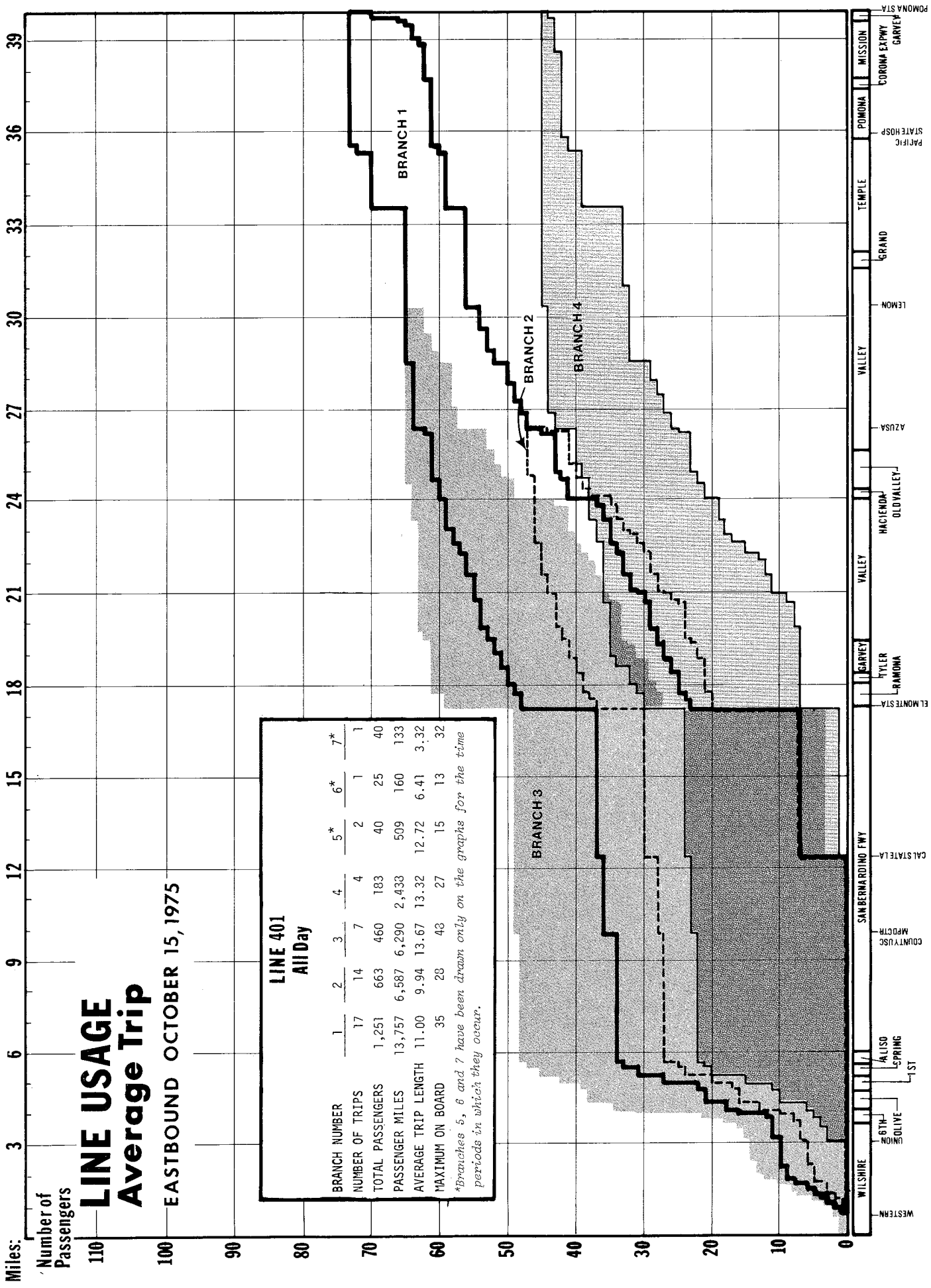
Line 401 Eastbound trips have been plotted from left to right on the Line Usage graphs and Westbound trips from right to left, and they should be read accordingly.

The top curve in all graphs represents passengers boarding. Measuring from the bottom of the graph to any point on the top curve will yield the number of passengers who have boarded from the beginning of the Line to that point on the route. Any portion of the top curve which is vertical is a measurement of the number of passengers boarding at that point only.

Similarly, the bottom curve in all graphs represents passengers alighting; and measuring from the bottom of the graph to any point on the bottom curve will show the number of passengers who have alighted from the beginning of the Line to that point on the route. Here too, any portion of the bottom curve which is vertical is a measurement of the number of passengers alighting only at that point.

The passengers on board at any point of the Line is the vertical difference between the top curve (passengers boarding) and bottom curve (passengers alighting).





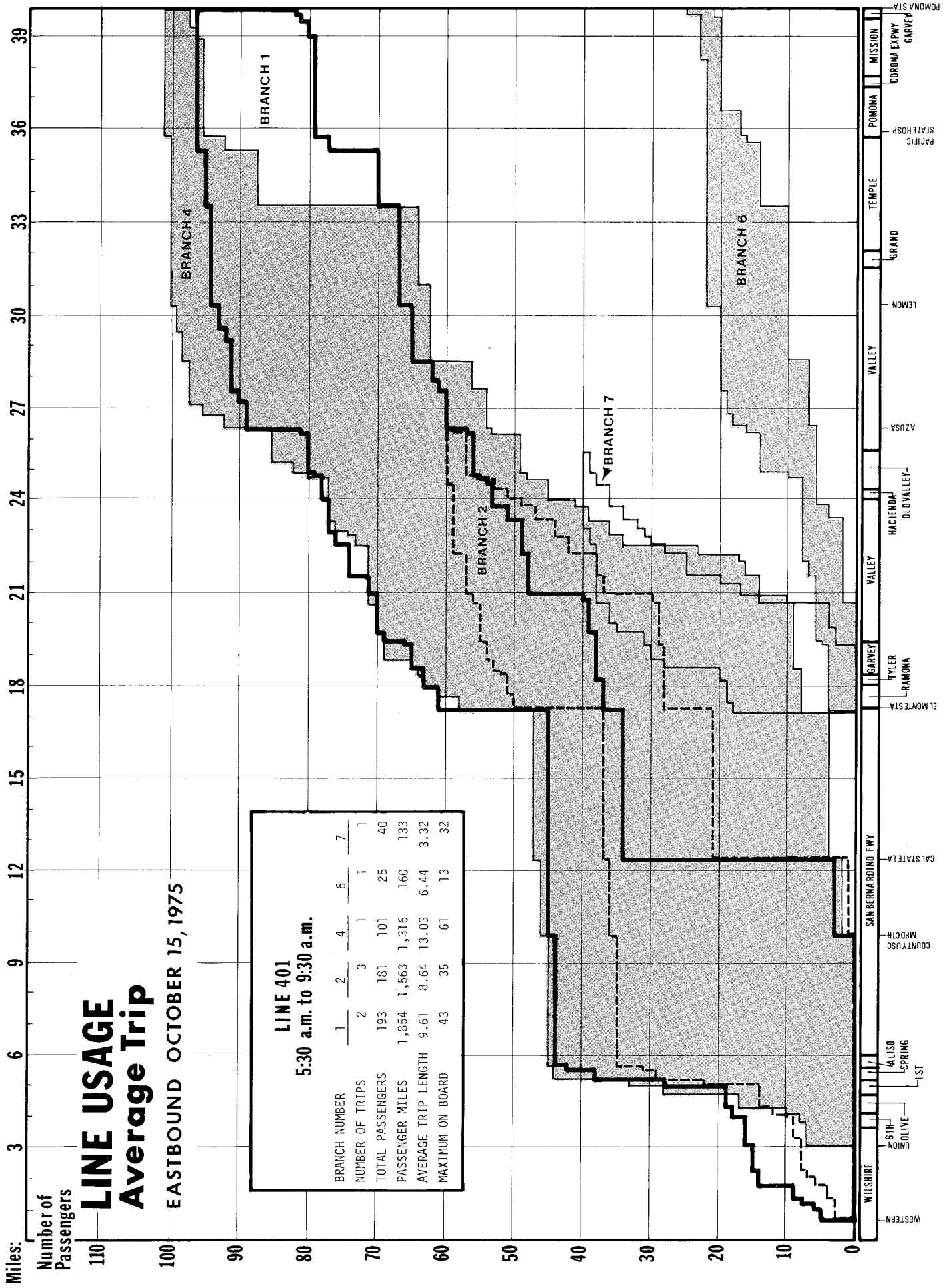
# LINE USAGE Average Trip

EASTBOUND OCTOBER 15, 1975

**LINE 401  
All Day**

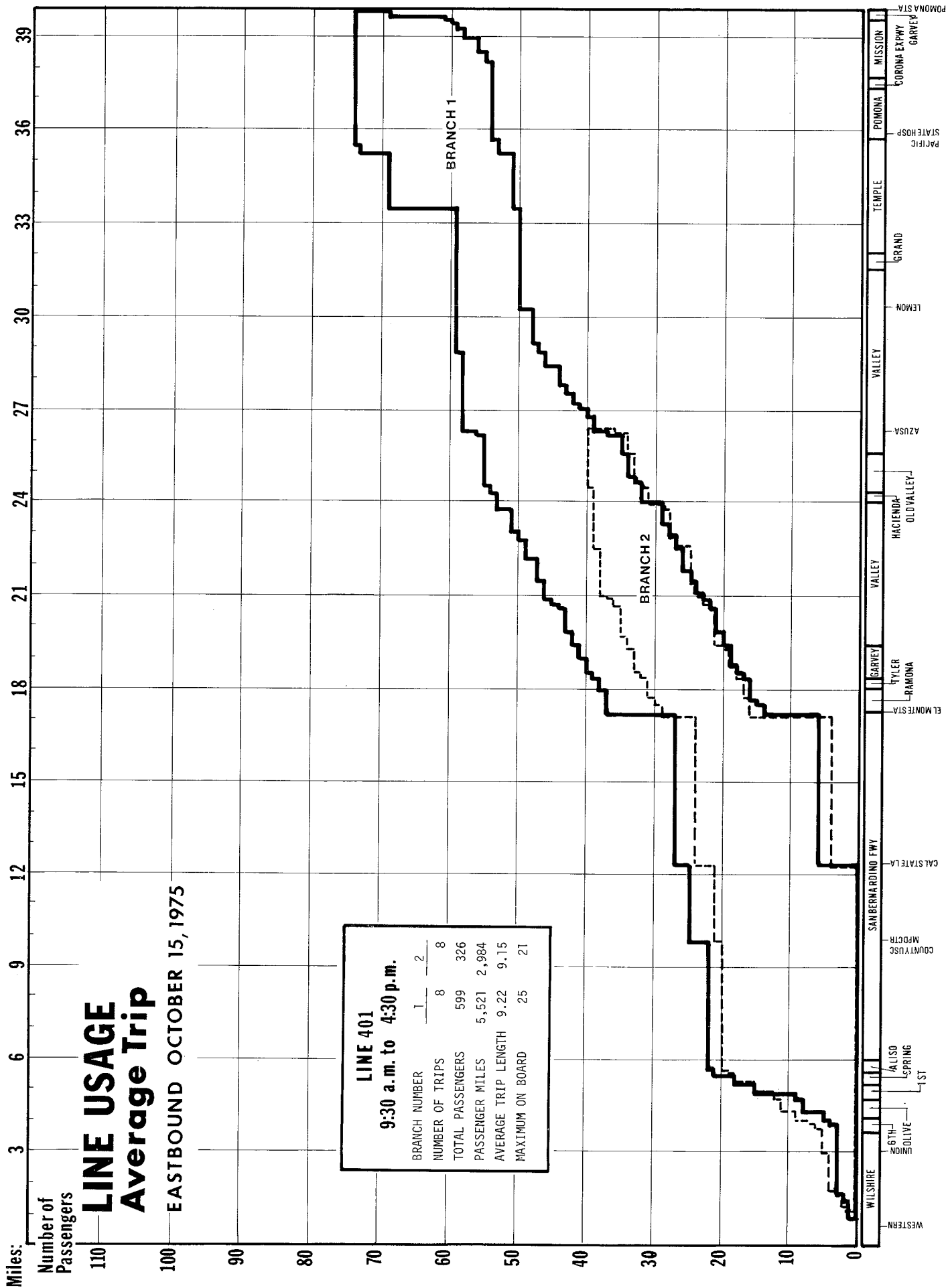
BRANCH NUMBER	1	2	3	4	5*	6*	7*
NUMBER OF TRIPS	17	14	7	4	2	1	1
TOTAL PASSENGERS	1,251	663	460	183	40	25	40
PASSENGER MILES	13,757	6,587	6,290	2,433	509	160	133
AVERAGE TRIP LENGTH	11.00	9.94	13.67	13.32	12.72	6.41	3.32
MAXIMUM ON BOARD	35	29	43	27	15	13	32

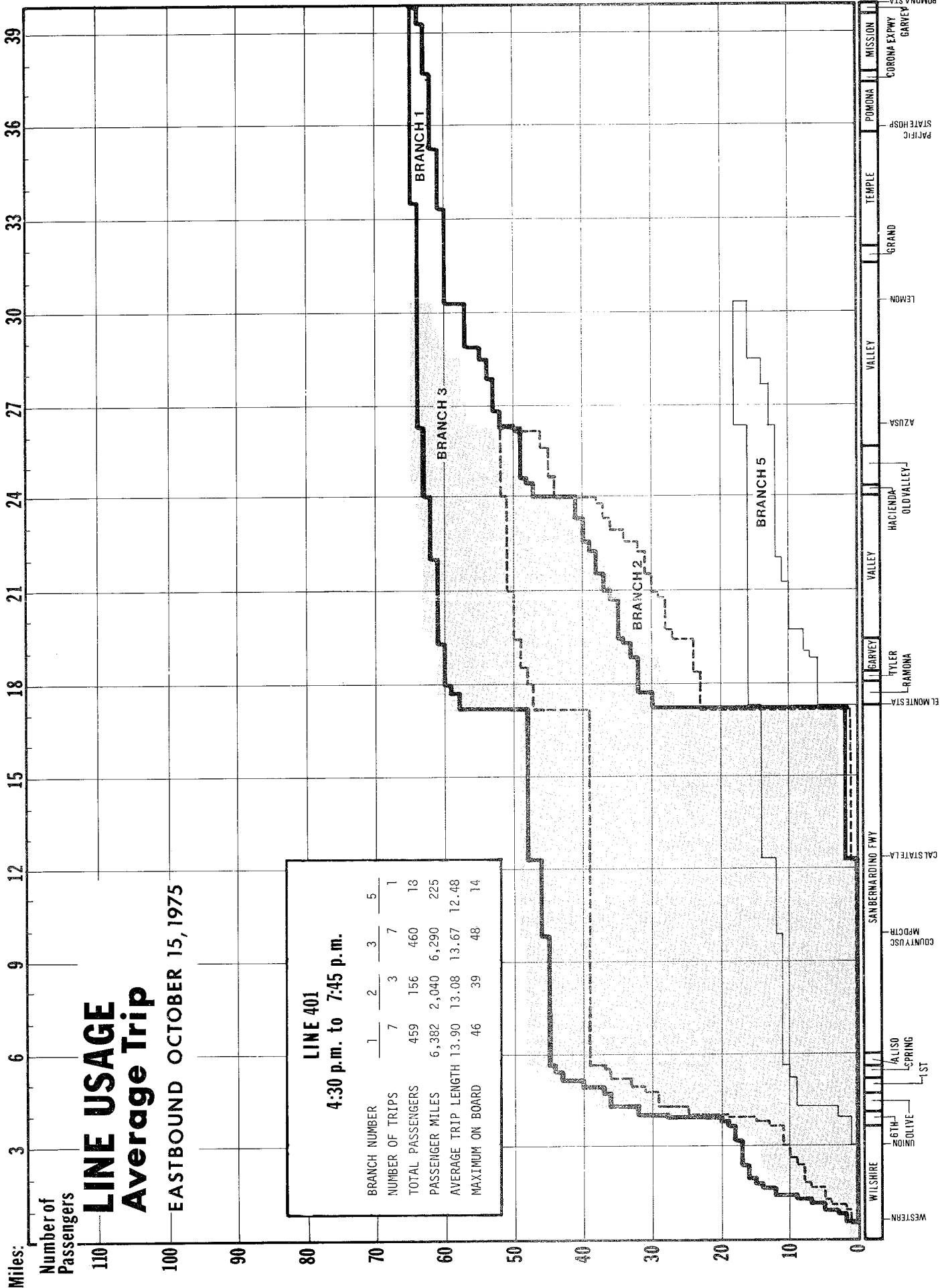
*\*Branches 5, 6 and 7 have been drawn only on the graphs for the time periods in which they occur.*



**LINE 401**  
**5:30 a.m. to 9:30 a.m.**

BRANCH NUMBER	1	2	4	6	7
NUMBER OF TRIPS	2	3	1	1	1
TOTAL PASSENGERS	193	181	101	25	40
PASSENGER MILES	1,854	1,563	1,316	160	133
AVERAGE TRIP LENGTH	9.61	8.64	13.03	6.44	3.32
MAXIMUM ON BOARD	43	35	61	13	32

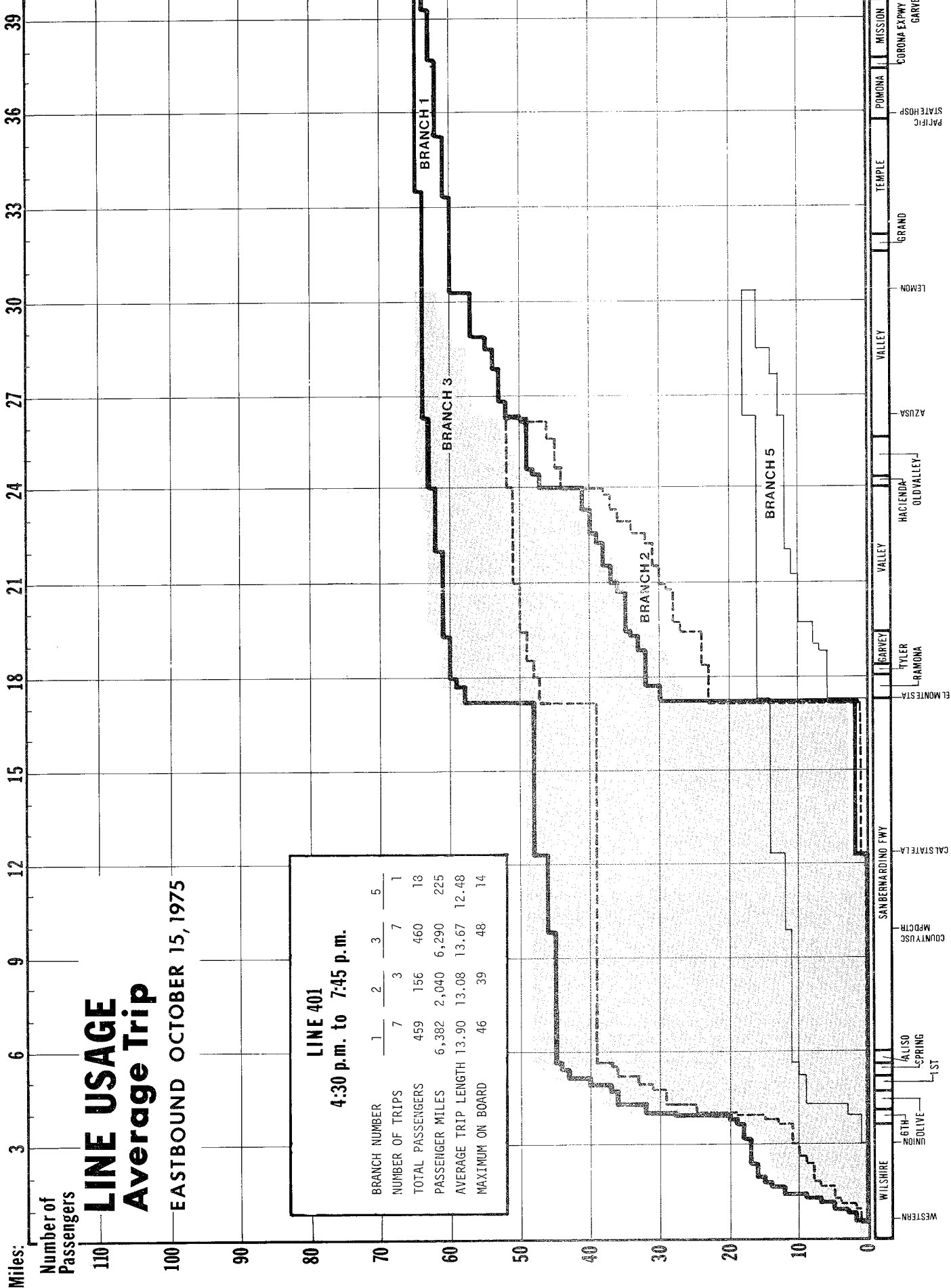




Miles:  
Number of  
Passengers

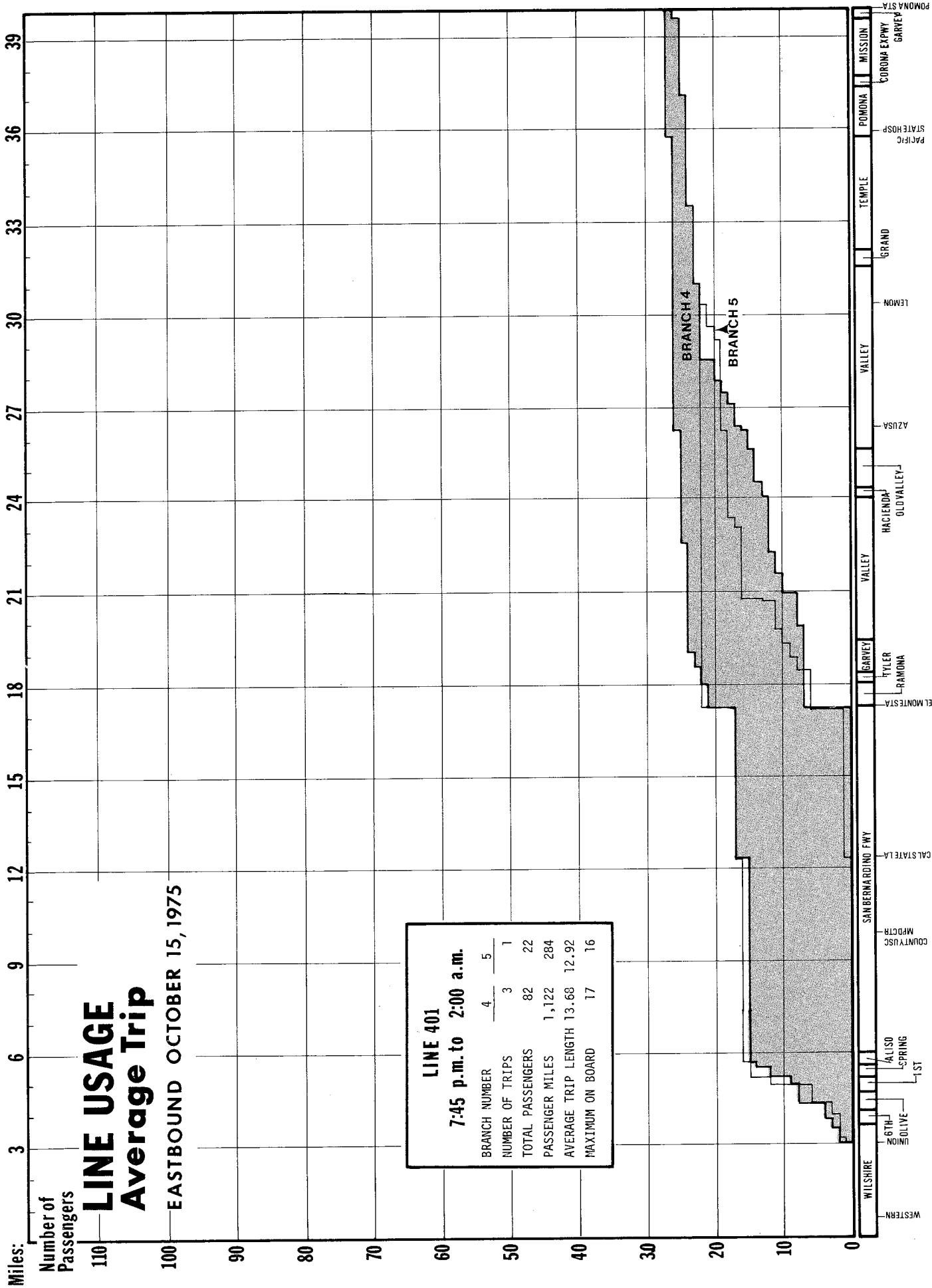
**LINE USAGE**  
**Average Trip**

EASTBOUND OCTOBER 15, 1975



- WESTERN
- WILSHIRE
- 6TH
- OLIVE
- MINION
- 40TH
- SPRING
- 1ST
- COUNTY USC
- MPDCR
- SAN BERNARDINO FWY
- CAL STATE LA
- EL MONTE STA
- RAMONA
- TYLER
- GARVEY
- VALLEY
- HACIENDA
- OLD VALLEY
- AZUSA
- VALLEY
- LEMON
- GRAND
- TEMPLE
- PACIFIC STATE HOSP
- POMONA
- MISSION
- CORONA FWY
- GARVEY
- POMONA STA





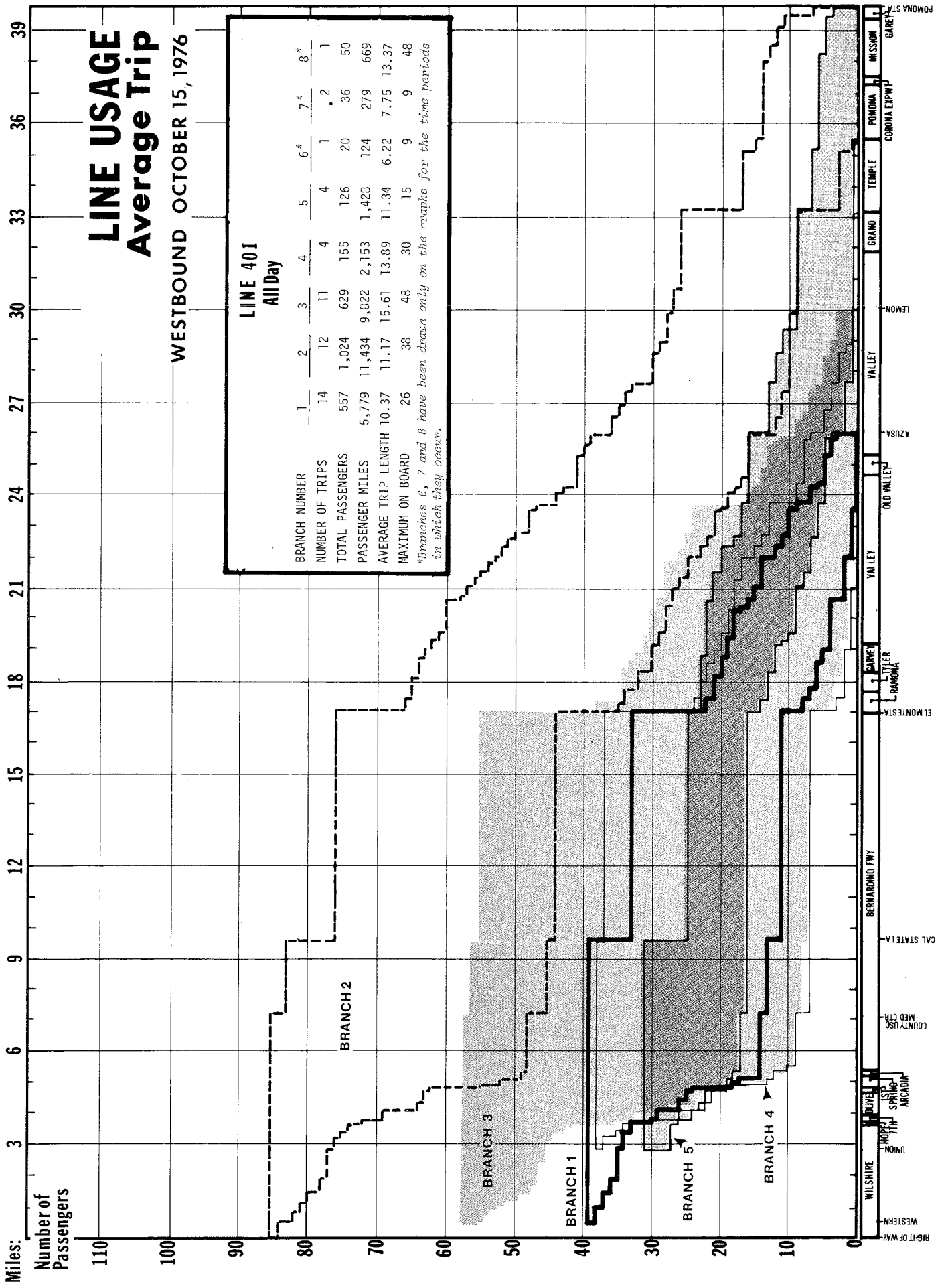
# LINE USAGE Average Trip

WESTBOUND OCTOBER 15, 1976

## LINE 401 All Day

BRANCH NUMBER	1	2	3	4	5	6*	7*	8*
NUMBER OF TRIPS	14	12	11	4	4	1	2	1
TOTAL PASSENGERS	557	1,024	629	155	126	20	36	50
PASSENGER MILES	5,779	11,434	9,822	2,153	1,428	124	279	669
AVERAGE TRIP LENGTH	10.37	11.17	15.61	13.89	11.34	6.22	7.75	13.37
MAXIMUM ON BOARD	26	38	43	30	15	9	9	48

\*Branches 6, 7 and 8 have been drawn only on the maps for the time periods in which they occur.



Miles:

Number of  
Passengers

110

100

90

80

70

60

50

40

30

20

10

0

3

6

9

12

15

18

21

24

27

30

33

36

39

BRANCH 2

BRANCH 3

BRANCH 1

BRANCH 5

BRANCH 4

RIGHT OF WAY

WESTERN

UNION

MOPEL

SPRING

ARCADIA

WILSHIRE

WILSON

CLYDE

CLYDE

COUNTY USC

MED CTR

CLM STERIA

BERNARDINO FWY

EL MONTE STA

RAMONA

VALLEY

VALLEY

VALLEY

OLD VALLEY

VALLEY

VALLEY

VALLEY

VALLEY

VALLEY

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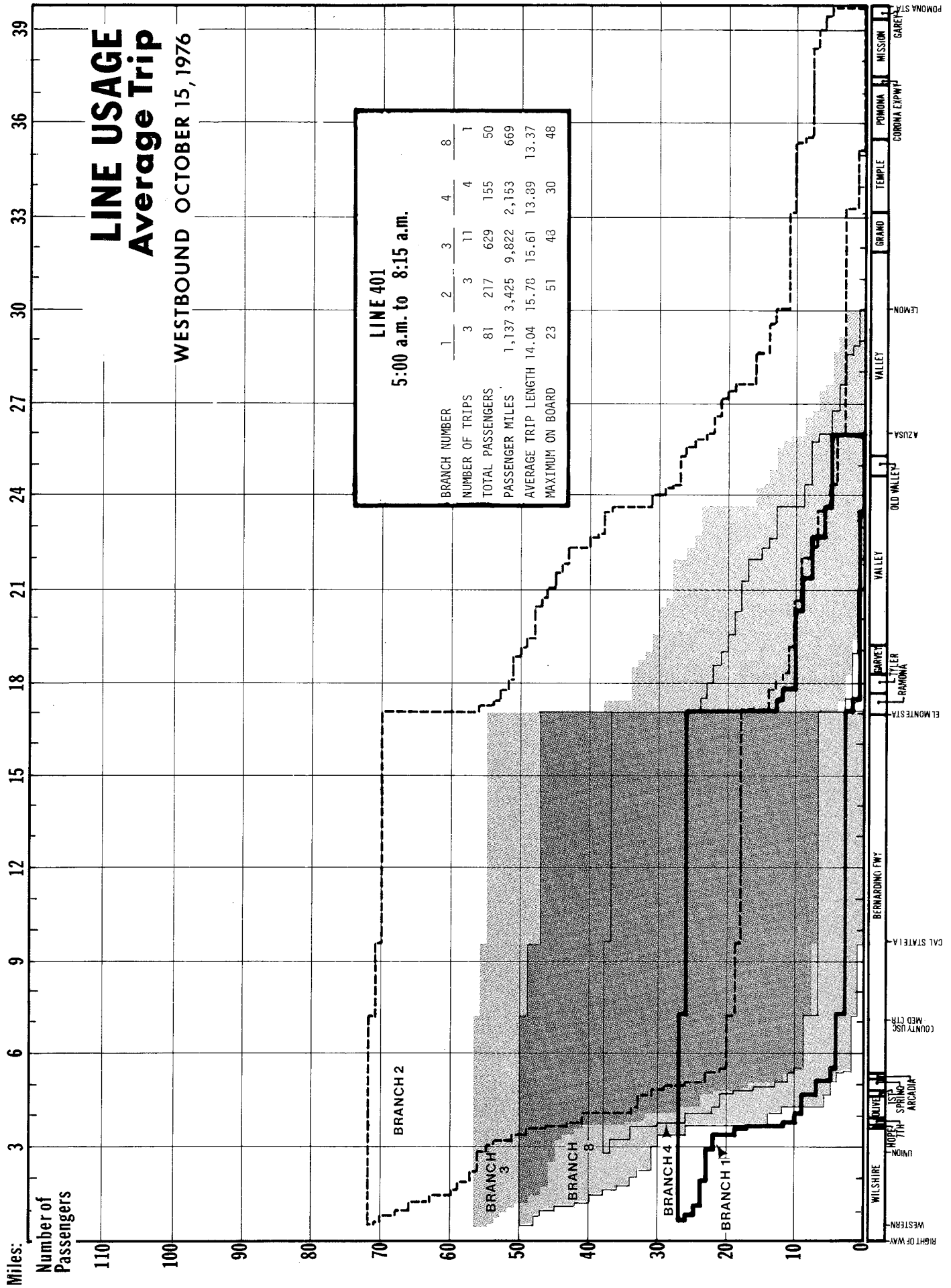
VALLEY

VALLEY

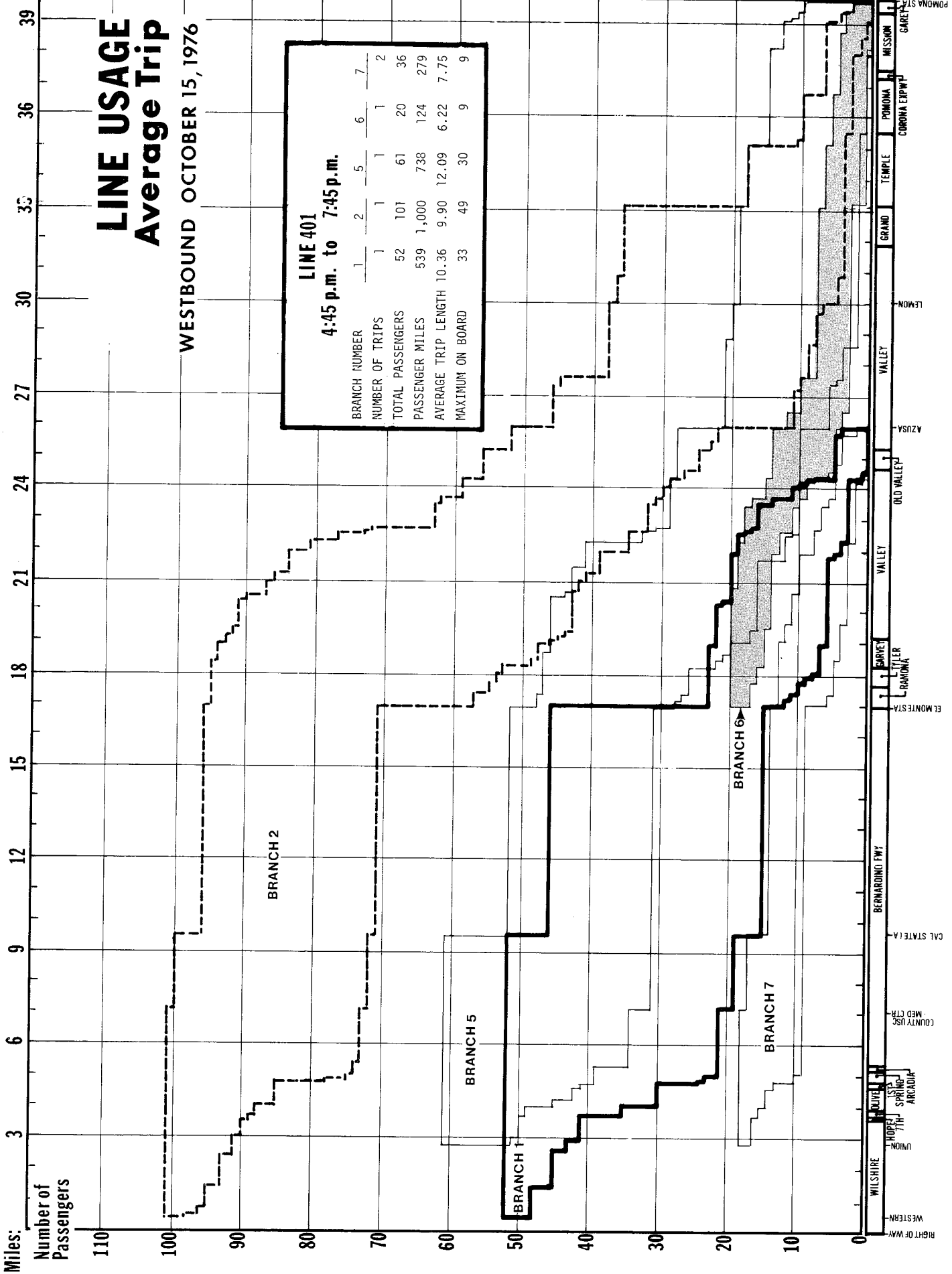
VALLEY

# LINE USAGE Average Trip

WESTBOUND OCTOBER 15, 1976



- RIGHT OF WAY
- WESTERN
- WILSHIRE
- UNION
- ROPER
- 7TH
- SPRING
- ARCADIA
- COUNTY USE
- MED CTR
- CAL STATE LA
- BERNARDINO TWP
- EL MONTE STA
- RAMONA
- LITLER
- BARCEL
- VALLEY
- VALLEY
- OLD VALLEY
- AZUSA
- LEMON
- GRAND
- TEMPLE
- POMONA
- CORONA EXPWY
- MISSION
- GARRETT
- POMONA STA



# LINE USAGE Average Trip

WESTBOUND OCTOBER 15, 1976

Miles:  
Number of  
Passengers

110  
100  
90  
80  
70  
60  
50  
40  
30  
20  
10  
0

39  
36  
35  
30  
27  
24  
21  
18  
15  
12  
9  
6  
3

BRANCH 2

BRANCH 5

BRANCH 1

BRANCH 7

BRANCH 6

WILSHIRE  
UNION  
HOPE  
ARCADIA  
MOUNTAIN VIEW  
WILSON  
CAL STATE L.A.  
BURNING PLY  
EL MONTE STA.  
BARNEY  
VALLEY  
VALLEY  
VALLEY  
OLD VALLEY  
AZUSA  
LEMON  
GRAND  
TEMPLE  
POMONA  
CORONA EXPWY  
MISSION  
GARNEY  
POMONA STA.

# COST FACTORS

LINE 401

DAILY AVERAGE			ANNUAL TOTAL	INDEX
WEEKDAYS	SATURDAYS	SUNDAYS & HOLIDAYS		

## TIME VARIABLES

SCHEDULED VEHICLE HOURS: IN SERVICE  
TOTAL

129	71	55	40,000	60.5
191	104	78	58,700	88.8
217	113	84	66,100	100.0
267	115	88	79,200	119.8

SCHEDULED DRIVER PAY HOURS  
ACTUAL DRIVER PAY HOURS

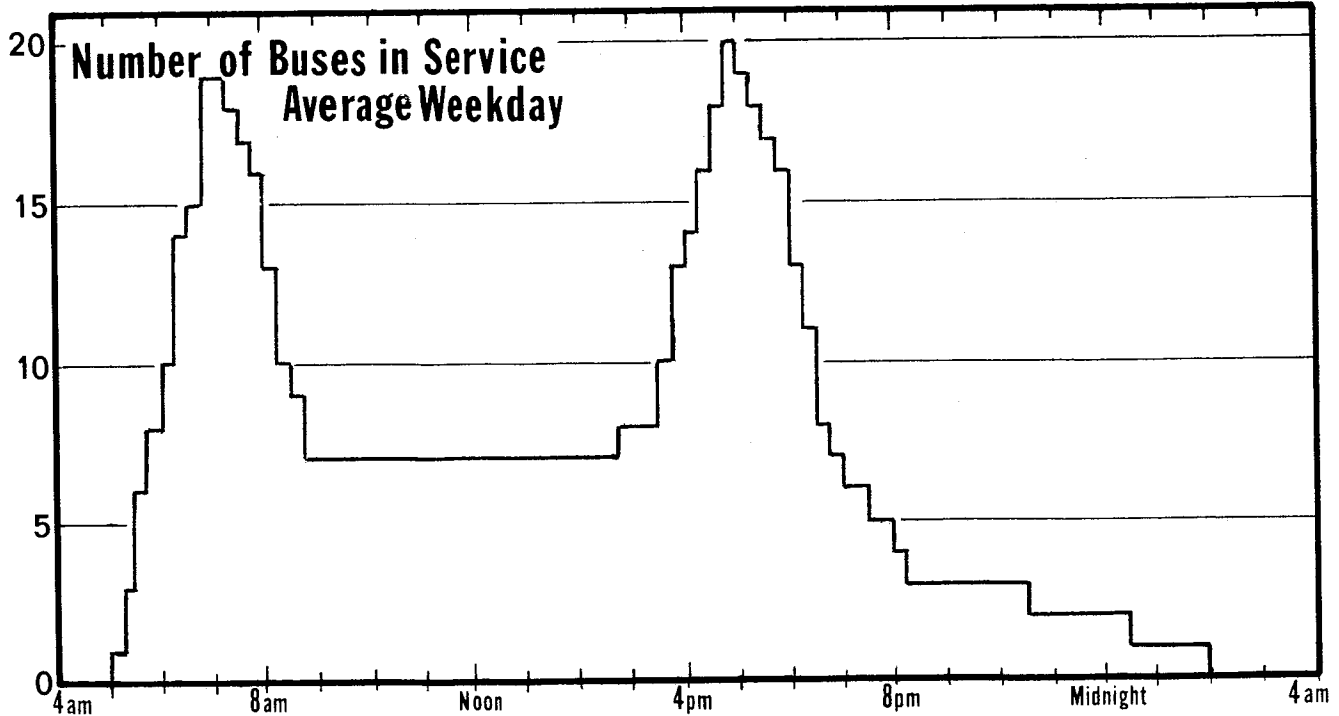
## MILEAGE VARIABLES

SCHEDULED VEHICLE MILES: IN SERVICE  
TOTAL

3,061	1,904	1,529	968,200	75.6
4,207	2,234	1,575	1,280,300	100.0
4,218	2,235	1,575	1,283,200	100.2

ACTUAL VEHICLE MILES

## EQUIPMENT PROFILE



## TOTAL ANNUAL LINE COST

**\$1,476,700**